

- 35 -

CLAIMS

1. A hair treatment composition comprising:

- (a) an anionic surfactant;
- (b) an amphoteric or zwitterionic surfactant;
- (c) an alkyl amphoalkanoate surfactant; and
- (d) an anti-dandruff agent that is in solution in the composition, wherein the anti-dandruff agent is climbazole.

2. Composition as claimed in Claim 1, wherein the anionic surfactant is selected from sodium lauryl sulphate, sodium lauryl ether sulphate(n)EO, (where n ranges from 1 to 3), ammonium lauryl sulphate and ammonium lauryl ether sulphate(n)EO, (where n ranges from 1 to 3).

3. Composition as claimed in Claim 1 or Claim 2 wherein the anionic surfactant is present in an amount of from 10 to 20 % by weight of the composition.

4. Composition as claimed any one of the preceding claims wherein the amphoteric or zwitterionic surfactant is a betaine.

5. Composition as claimed any one of the preceding claims wherein the amphoteric or zwitterionic surfactant is cocamidopropylbetaine.

6. Composition as claimed in any one of the preceding claims wherein the amphoteric or zwitterionic surfactant is present in an amount of from 0.5 to 5% by weight of the composition.

- 36 -

7. Composition as claimed in any one of the preceding claims wherein the alkyl amphoalkanoate surfactant is a (C₆ to C₁₈ alkyl)ampho(C₁ to C₂ alkanoate).

8. Composition as claimed in any one of the preceding claims wherein the alkyl amphoalkanoate surfactant is sodium cocoamphoacetate or sodium lauryl cocoamphoacetate.

9. Composition as claimed in any one of the preceding claims wherein the alkyl amphoalkanoate surfactant is present in the composition in an amount of from 0.5 to 5% by weight of the composition.

~~10. Composition as claimed in any one of the preceding claims, wherein the anti-dandruff agent is climbazole.~~

10.

~~11.~~ Composition as claimed in any one of the preceding claims, wherein the anti-dandruff agent is present in the composition in an amount of from 0.1 to 5% by weight.

11.

~~12.~~ Composition as claimed in any one of the preceding claims, wherein the composition comprises a cationic polymer in an amount of 0.01 to 5% by weight.

12.

~~13.~~ Composition as claimed in any one of the preceding claims which has a pH in the range of from 5 to 8.

- 37 -

13.

14. Composition as claimed in any one of the preceding claims which has a pH in the range of from 6 to 7.

14.

15. Composition as claimed in any one of the preceding claims which is a shampoo.

15.

16. A method of treating hair which comprises applying to the hair a composition of any one of Claims 1 to 15.

14.

10

17. The use of a surfactant mixture comprising: an anionic surfactant; an amphoteric or zwitterionic surfactant; and an alkyl amphoteric surfactant to increase the mildness of a hair treatment composition comprising an anti-dandruff agent that is in solution in the composition.

15

18. The use of a surfactant mixture comprising: an anionic surfactant; an amphoteric or zwitterionic surfactant; and an alkyl amphoteric surfactant to increase the deposition of an anti-dandruff agent from a hair treatment composition.

20

19. Use as claimed in Claim 17 or Claim 18, wherein the anti-dandruff agent is climbazole.

25